

AMENDMENTS TO THE CLAIMS

Listing of the Claims:

Claims 1, 10-12 and 15 are currently amended claims.

Claims 2 and 5 are previously amended claims.,

Claims 3, 4, 6-9 and 13 are original claims.

Claims 3, 4, 8, 9 and 14-16 are non-elected claims.

Claim 17 is a previously added claim.

1. (Currently Amended) A highly lubricious hydrophilic coating for a medical device comprising: a mixture of colloidal aliphatic polyurethane, an aqueous dilution of PVP and ~~specific~~ dendrimers selected from the group consisting of: poly(amidoamine dendrimers, poly(propylene imine) dendrimers, polyether dendrimers, phenylacetylene dendrimers, chiral dendrimers, and tecto dendrimers, to enhance the physical integrity of the coating, to improve adhesion and to covalently bind or load an agent within the dendrimer structure.

2. (Previously amended) The coating of claim 1 wherein the agent is an anti-thrombotic drug.

3. (Original) The coating of claim 1 wherein the agent is an antibiotic.

4. (Original) The coating of claim 1 wherein the agent is a dye.

5. (Previously amended) The coating of claim 1 comprising a colloidal dispersion of an aliphatic polyurethane polymer in a solvent mixture including: an aliphatic polyurethane polymer;

purified water;

N-methyl-2 pyrrolidone;

dendrimers;

poly (1-vinylpyrrolidone-co-2-dimethylamino ethyl methacrylate)-PVP triethylamine; and,

said agent.

6. (Original) The coating of claim 5 wherein the agent is an antithrombotic drug.

7. (Original) The coating of claim 5 wherein the antithrombotic drug is sodium heparin.

8. (Original) The coating of claim 5 wherein the agent is an antibiotic drug.

9. (Original) The coating of claim 5 wherein the agent is a dye.

10. (Currently amended) A method for applying the coating of claim 1 to a medical device comprising the step of dipping the medical device into a solution containing the mixture of colloidal aliphatic polyurethane, the aqueous dilution of PVP and the specific dendrimers.

11. (Currently amended) A method for applying the coating of claim 1 to a medical device comprising the step of airless spraying of the medical device with a solution containing the mixture of colloidal aliphatic polyurethane, the aqueous dilution of PVP and the specific dendrimers.

12. (Currently amended) A method for applying the coating of claim 1 to a catheter comprising the step of dipping the catheter into a solution containing the mixture of colloidal aliphatic polyurethane, the aqueous dilution of PVP and the specific dendrimers.

13. (Original) The method of claim 12 further including the step of flushing a lumen of the catheter with nitrogen during the dipping process to prevent the solution from entering the catheter's lumen.

14. (Non-elected) A medical device coated, in a first zone where the medical device contacts blood, with a first hydrophilic coating containing an eluting anti-thrombogenic drug and/or dye, and coated, in a second zone, where the medical device comes in contact with tissue, with a second hydrophilic coating containing an eluting antibiotic drug and/or dye.

15. (Currently amended-Non-elected) The medical device of claim 14 wherein each hydrophilic coating comprises a mixture of colloidal aliphatic polyurethane, an aqueous dilution of PVP and specific dendrimers to enhance the physical integrity of the coating, to improve adhesion and to covalently bind or load with either the antithrombotic drug or the antibiotic drug or the dye.

16. (Non-elected) The medical device of claim 14 being a catheter.

17. (Previously added) The coating of claim 2 wherein said antithrombotic drug is sodium heparin.

